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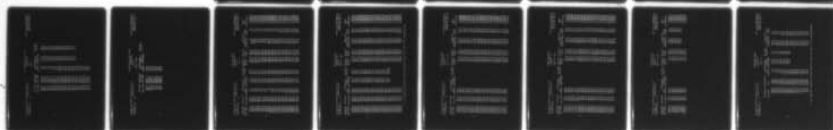
ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
15002 LITTLE JOHN MISSILE NUMBER 3139, ROUND NUMBER 723 R6 (11 --ETC(U)
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12-53
January 1977

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METEOROLOGICAL DATA REPORT

15002 LITTLE JOHN
MISSILE NO. 3139, BOUND NO. 313 20
(11 January 1977)

BY

WEMR METEOROLOGICAL TEAM

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 15002 Little John, Missile Number 3139, Round Number 723 RG, are presented in tabular form.		

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INTRODUCTION

15002 Little John, Missile Number 3139, Round Number 723 RG, was launched from SW-50, White Sands Missile Range (WSMR), New Mexico, at 1005 HRS MST, 11 January 1977. The scheduled launch time was 1000 HRS MST.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,997.06	FEET/MSL
PRESSURE	879.2	MBS
TEMPERATURE	3.5	°C
RELATIVE HUMIDITY	42	%
DEW POINT	-8.1	°C
DENSITY	1,104.0	GM/M ³
WIND SPEED		CALM
WIND DIRECTION		CALM
CLOUD COVER	2/10	Cs

TABLE I. SURFACE OBSERVATIONS TAKEN AT SW-50,
1005 HRS MST/11 JANUARY 1977.

T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG	T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG	T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG
-5.00	CALM		-0 9.5	CALM		-0 0.50	CALM	
-4.30			-0 9.0			-0 0.25		
-4.00			-0 8.5			0 0.00		
-3.30			-0 8.0			+0 0.25		
-3.00			-0 7.5			+0 0.50		
-2.30			-0 7.0			+0 0.75		
-2.00			-0 6.5			+0 1.00		
-1.45			-0 6.0			+0 1.25		
-1.30			-0 5.5			+0 1.50		
-1.15			-0 5.0			+0 1.75		
-0.60			-0 4.5			+0 2.00		
-0.55			-0 4.0			+0 2.25		
-0.50			-0 3.5			+0 2.50		
-0.45			-0 3.0			+0 2.75		
-0.40			-0 2.5			+0 3.00		
-0.35			-0 2.0			+0 3.25		
-0.30			-0 1.75			+0 3.50		
-0.25			-0 1.50			+0 3.75		
-2.20			-0 1.25			+0 4.00		
-0.15			-0 1.00			+0 4.25		
-0.10	CALM		-0 0.75	CALM		+0 4.50	CALM	

TABLE II. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 1
15002 LITTLE JOHN, MISSILE NO. 3139, ROUND NO. 723 RG
LAUNCHED FROM SW-70, 1005 MST/11 JANUARY 1977

WSTM COORDINATES: X = 467,067.46 Y = 440,662.81 Z = 3,997.06

T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG	T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG	T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG
+0 4.75	CALM		+0 10.00	CALM		+0 20.50	CALM	
+0 5.00			+0 10.50			+0 21.00		
+0 5.25			+0 11.00			+0 21.50		
+0 5.50			+0 11.50			+0 22.00		
+0 5.75			+0 12.00			+0 22.50		
+0 6.00			+0 12.50			+0 23.00		
+0 6.25			+0 13.00			+0 23.50		
+0 6.50			+0 13.50			+0 24.00		
+0 6.75			+0 14.00			+0 24.50		
+0 7.00			+0 14.50			+0 25.00		
+0 7.25			+0 15.00			+0 25.50		
+0 7.50			+0 15.50			+0 26.00		
+0 7.75			+0 16.00			+0 26.50		
+0 8.00			+0 16.50			+0 27.00		
+0 8.25			+0 17.00			+0 27.50		
+0 8.50			+0 17.50			+0 28.00		
+0 8.75			+0 18.00			+0 28.50		
+0 9.00			+0 18.50			+0 29.00		
+0 9.25			+0 19.00			+0 29.50		
+0 9.50			+0 19.50			+0 30.00	CALM	
+0 9.75	CALM		+0 20.00	CALM				

TABLE II. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM	2100	206	7.0
100			2200	207	7.0
200			2300	209	7.5
300			2400	208	8.5
400			2500	207	10.0
500		CALM	2600	207	11.0
600	126	0.5	2700	208	11.5
700		2.0	2800	209	
800		3.0	2900	210	
900		4.5	3000	211	
1000	126	6.0	3100	212	11.5
1100	128	6.5	3200	213	12.0
1200	138	6.5	3300	216	11.5
1300	148	6.5	3400	221	10.5
1400	167	6.0	3500	227	10.0
1500	196	6.5	3600	234	9.5
1600	198		3700	241	8.5
1700	200		3800	242	6.5
1800	201		3900	242	5.0
1900	203	6.5	4000	218	5.0
2000	204	7.0	4100	205	6.5

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM SW-50, AT 1005 MST/11 JANUARY 1977
15002 LITTLE JOHN, MISSILE NO. 3139, ROUND NO. 723 RG

PIBAL RELEASE POINT WSTM COORDINATES:

X = 467,067.46 Y = 440,662.81 Z = 3,997.06

NOTE: WIND DIRECTION DATA ARE REFERENCED TO THE FIRING AZIMUTH 171.0°.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	207	7.0
4300	208	7.5
4400	209	8.0
4500	210	8.5
4600	210	9.0
4700	211	9.5
4800	211	8.5
4900	211	8.0
5000	211	7.5

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TO THE FIRING AZIMUTH 171.0°.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM	2100	004	4.0
100	017	0.5	2200	005	4.5
200	017	0.5	2300	008	5.5
300	017	1.0	2400	010	6.0
400	017	1.0	2500	012	6.5
500	020	1.0	2600	015	7.0
600		CALM	2700	019	7.0
700	124	0.5	2800	022	7.0
800	174	1.0	2900	026	7.0
900	191	1.0	3000	032	6.5
1000	201	1.0	3100	039	6.0
1100	207	1.5	3200	046	5.5
1200	214		3300	039	6.5
1300	222		3400	034	7.0
1400	232		3500	030	8.0
1500	243	1.5	3600	034	8.5
1600	291	1.0	3700	040	9.5
1700	344	1.0	3800	044	10.0
1800	002	2.0	3900	048	10.5
1900	005	2.5	4000	053	11.0
2000	004	3.5	4100	057	11.0

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM D 3 1/2, AT 1011 MST/11 JANUARY 1977
15002 LITTLE JOHN, MISSILE NO. 3139, ROUND NO. 723 RG

PIBAL RELEASE POINT WSTM COORDINATES:

X = 443,023.73 Y = 388,397.95 Z = 3,972.63

APPROXIMATELY: 8 MILES SOUTHWEST OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	059	11.0
4300	054	9.5
4400	047	8.5
4500	038	7.5
4600	047	7.0
4700	037	7.0
4800	036	6.5
4900	036	7.0
5000	036	7.5

TABLE IV. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 4051.00 FEET MSL
11 JAN. 77 1000 HRS MST
ASCENSION NO. 12

SIGNIFICANT LEVEL DATA
C110030012
JALLEN
TABLE V

WSTM SITE COORDINATES
450491.50 FEET E
464023.05 FEET N

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM. PERCENT
MILLIBARS	ALTITUDE MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
979.8	4051.0	3.2	-11.5	33.0
868.2	4402.8	1.2	-12.2	36.0
850.0	4963.8	2.6	-12.8	31.0
812.2	6169.9	1.9	-13.0	32.0
301.6	6518.7	3.3	-12.2	31.0
738.2	8705.2	1.6	-15.3	27.0
700.0	10104.1	-1.0	-21.7	19.0
649.8	12038.1	-5.4	-24.2	21.0
640.8	12397.3	-6.1	-19.0	35.0
612.0	13574.1	-8.7	-26.5	22.0
568.6	15436.0	-11.9	-24.5	34.0
515.8	17869.3	-15.9	-34.1	19.0
500.0	18637.6	-17.6	-35.1	20.0
467.5	20278.7	-21.7	-39.0	19.0
454.2	20975.4	-23.5	-27.1	72.0
446.8	21369.6	-24.7	-30.4	59.0
439.6	21757.9	-25.6	-31.2	59.0
409.4	23440.4	-30.1	-30.2	99.0
400.0	23983.3	-31.2	-31.3	99.0
348.0	27180.9	-38.6	-44.7	52.0
316.2	29325.2	-43.4	-48.9	54.0
300.0	30484.7	-45.5		
250.0	34422.1	-52.8		
244.6	34885.1	-53.8		
200.0	39097.4	-58.6		
180.0	41268.4	-60.6		
167.4	42754.4	-58.5		
152.4	44712.1	-57.9		
150.0	45043.1	-56.4		
144.8	45780.4	-57.0		

STATION ALTITUDE 4051.00 FEET MSI
 11 JAN. 77 1000 HRS MST
 ASCENSION NO. 12

SIGNIFICANT LEVEL DATA
 0110030012
 JALLEN

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE V (CONT)

PRESSURE GEOMETRIC ALTITUDE	TEMPERATURE AIR DEWPOINT	REL. HUM. PERCENT
MILLIBARS MSI FEET	DEGREES CENTIGRADE	
141.4 46277.7	-55.8	
128.2 48328.7	-57.0	
106.6 52130.3	-62.6	
100.0 53433.7	-61.5	
89.8 55617.7	-64.6	
73.9 59523.6	-66.9	
70.0 60605.0	-66.8	
54.4 65721.9	-59.7	
50.0 67459.7	-60.6	
46.0 69198.2	-54.7	

UPPER AIR DATA
 C110030012
 JALLEN

STATION ALTITUDE 4051.00 FEET MSI
 11 JAN. 77 1000 HRS MST
 ASCENSION NO. 12

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE VI

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	879.8	3.2	-11.5	33.0	1107.9	648.0	0.0	0.0	1.000259
4500.0	865.0	1.4	-12.3	35.1	1096.3	645.9	355.8	1.0	1.000256
5000.0	848.8	2.6	-12.8	31.0	1071.4	647.2	355.8	2.1	1.000250
5500.0	833.0	2.3	-12.9	31.4	1052.4	646.9	355.8	3.2	1.000246
6000.0	817.4	2.0	-13.0	31.9	1033.9	646.6	10.9	5.0	1.000242
6500.0	802.2	3.2	-12.2	31.1	1010.0	648.0	21.6	7.5	1.000237
7000.0	787.2	2.9	-12.9	30.1	992.2	647.7	31.0	7.5	1.000232
7500.0	772.5	2.5	-13.6	29.2	975.1	647.2	37.8	7.2	1.000228
8000.0	758.1	2.1	-14.3	28.3	958.3	646.7	36.0	6.1	1.000224
8500.0	743.9	1.8	-15.0	27.4	941.8	646.2	26.5	5.5	1.000219
9000.0	730.0	1.1	-16.6	25.3	926.6	645.4	11.5	5.6	1.000215
9500.0	716.2	.1	-18.8	22.5	912.4	644.2	357.5	5.7	1.000210
10000.0	702.8	-.8	-21.1	19.6	898.4	643.1	344.6	5.9	1.000206
10500.0	689.4	-1.9	-22.2	19.4	884.9	641.8	331.9	5.7	1.000202
11000.0	676.3	-3.0	-22.8	19.9	871.7	640.4	319.1	5.5	1.000199
11500.0	663.4	-4.2	-23.5	20.4	858.8	639.1	305.7	5.3	1.000196
12000.0	650.8	-5.3	-24.2	21.0	846.0	637.7	289.5	6.3	1.000193
12500.0	638.2	-6.3	-19.6	33.9	832.6	636.6	278.3	8.2	1.000192
13000.0	625.9	-7.4	-22.6	28.3	820.1	635.2	273.9	11.0	1.000188
13500.0	613.8	-8.5	-26.0	22.8	807.7	633.9	271.3	14.0	1.000184
14000.0	601.8	-9.4	-25.9	24.7	794.6	632.8	266.4	17.5	1.000181
14500.0	590.0	-10.3	-25.3	28.0	781.6	631.8	262.0	21.3	1.000178
15000.0	578.5	-11.2	-24.8	31.2	768.8	630.8	257.1	25.8	1.000176
15500.0	567.1	-12.0	-24.7	33.6	756.2	629.7	253.2	30.0	1.000173
16000.0	555.9	-12.8	-26.5	30.5	743.6	628.7	249.9	33.9	1.000170
16500.0	544.9	-13.6	-28.4	27.4	731.2	627.7	247.2	36.7	1.000166
17000.0	534.1	-14.5	-30.4	24.4	719.0	626.7	245.1	39.3	1.000163
17500.0	523.5	-15.3	-32.5	21.3	707.0	625.7	244.1	41.5	1.000160
18000.0	513.1	-16.2	-34.3	19.2	695.4	624.6	243.4	43.2	1.000157
18500.0	502.8	-17.3	-34.9	19.8	684.4	623.2	243.3	44.1	1.000154

UPPER AIR DATA
 0110030012
 JALLEN
 TABLE VI (CONT)

STATION ALTITUDE 4051.00 FEET MSL
 11 JAN. 77 1000 HRS MST
 ASCENSION NO. 12

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			METERS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
19000.0	492.6	-18.5	-35.9	19.8	573.9	621.7		243.2	44.4	1.000152
19500.0	482.6	-19.8	-37.1	19.5	663.4	620.2		243.1	44.1	1.000149
20000.0	472.9	-21.0	-38.3	19.2	653.2	618.7		243.1	44.1	1.000147
20500.0	463.2	-22.3	-33.3	35.8	643.0	617.1		243.2	44.1	1.000145
21000.0	453.7	-23.6	-27.3	71.2	633.0	615.6		242.8	45.2	1.000145
21500.0	444.4	-25.0	-30.7	59.0	623.6	613.8		242.5	46.2	1.000142
22000.0	435.1	-26.2	-30.9	64.8	613.7	612.3		243.4	47.0	1.000140
22500.0	426.0	-27.6	-30.4	76.6	604.1	610.6		244.6	47.7	1.000138
23000.0	417.1	-28.9	-30.2	88.5	594.7	609.0		246.6	48.2	1.000136
23500.0	408.4	-30.2	-30.3	99.0	585.3	607.3		248.1	49.0	1.000133
24000.0	399.7	-31.2	-31.4	98.8	575.4	606.1		247.9	50.7	1.000131
24500.0	391.1	-32.4	-33.3	91.4	565.7	604.6		247.6	52.4	1.000128
25000.0	382.7	-33.6	-35.3	84.1	556.2	603.1		246.6	53.6	1.000126
25500.0	374.4	-34.7	-37.3	76.7	546.9	601.6		245.7	55.0	1.000123
26000.0	366.4	-35.9	-39.4	69.4	537.8	600.2		245.3	57.0	1.000121
26500.0	358.5	-37.0	-41.6	62.0	528.8	598.7		244.4	59.4	1.000119
27000.0	350.8	-38.2	-43.9	54.7	520.0	597.2		242.5	62.9	1.000117
27500.0	343.1	-39.3	-45.3	52.3	511.0	595.8		240.8	66.2	1.000115
28000.0	335.5	-40.4	-46.3	52.8	502.2	594.3		239.2	69.0	1.000113
28500.0	328.1	-41.6	-47.3	53.2	493.4	592.9		238.2	72.0	1.000110
29000.0	320.8	-42.7	-48.3	53.7	484.9	591.5		237.8	75.1	1.000109
29500.0	313.7	-43.7	-50.6	45.9**	476.3	590.1		237.4	78.4	1.000106
30000.0	306.7	-44.6	-57.2	22.6**	467.5	588.9		236.8	82.1	1.000104
30500.0	299.8	-45.5			458.8	587.8		236.4	86.4	1.000102
31000.0	292.9	-46.5			450.1	586.6		236.1	91.6	1.000100
31500.0	286.2	-47.4			441.6	585.4		235.8	96.0	1.000098
32000.0	279.7	-48.3			433.3	584.2		235.6	98.7	1.000097
32500.0	273.3	-49.2			425.2	583.0		235.3	101.4	1.000095
33000.0	267.0	-50.2			417.2	581.7		234.8	101.5	1.000093
33500.0	260.9	-51.1			409.3	580.5		234.2	101.2	1.000091

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

UPPER AIR DATA

STATION ALTITUDE 4051.00 FEET MSL
11 JAN. 77 1000 HRS MST
ASCENSION NO. 12

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS			
34000.0	254.9	-52.0			401.6	579.3		233.5	100.4	1.000089
34500.0	249.1	-53.0			394.1	578.1		232.7	99.3	1.000088
35000.0	243.3	-53.9			386.6	576.8		232.5	97.3	1.000086
35500.0	237.5	-54.5			378.4	576.1		232.5	94.8	1.000084
36000.0	231.9	-55.1			370.5	575.3		233.4	93.0	1.000083
36500.0	226.4	-55.6			362.7	574.6		234.6	91.4	1.000081
37000.0	221.1	-56.2			355.0	573.8		236.1	91.7	1.000079
37500.0	215.9	-56.8			347.6	573.1		237.7	92.8	1.000077
38000.0	210.8	-57.3			340.2	572.3		239.2	93.0	1.000076
38500.0	205.8	-57.9			333.1	571.5		240.6	92.5	1.000074
39000.0	200.9	-58.5			326.1	570.8		241.9	91.4	1.000073
39500.0	196.1	-59.0			319.0	570.1		243.2	89.1	1.000071
40000.0	191.4	-59.4			312.0	569.5		244.5	87.0	1.000069
40500.0	186.8	-59.9			305.2	568.9		245.3	86.0	1.000068
41000.0	182.4	-60.4			298.5	568.3		246.0	85.0	1.000066
41500.0	178.0	-60.3			291.3	568.4		246.3	83.7	1.000065
42000.0	173.7	-59.6			283.4	569.3		246.4	82.2	1.000063
42500.0	169.6	-58.9			275.7	570.3		246.4	81.3	1.000061
43000.0	165.5	-58.4			268.5	570.9		246.0	81.3	1.000060
43500.0	161.6	-58.3			261.9	571.1		245.7	81.4	1.000058
44000.0	157.7	-58.1			255.5	571.3		246.0	82.2	1.000057
44500.0	154.0	-58.0			249.3	571.5		246.3	82.9	1.000056
45000.0	150.3	-56.6			241.8	573.3		247.2	79.6	1.000054
45500.0	146.8	-56.8			236.3	573.1		248.3	76.2	1.000053
46000.0	143.3	-56.5			230.4	573.5		249.1	73.1	1.000051
46500.0	139.9	-55.9			224.4	574.2		249.8	70.1	1.000050
47000.0	136.6	-56.2			219.4	573.8		250.6	68.2	1.000049
47500.0	133.4	-56.5			214.5	573.4		251.4	68.4	1.000048
48000.0	130.2	-56.8			209.7	573.0		252.2	68.6	1.000047
48500.0	127.1	-57.3			205.1	572.4		253.8	68.5	1.000046

UPPER AIR DATA
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 450491.60 FEET E
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STATION ALTITUDE 4051.00 FEET MSI
 11 JAN. 77
 1000 HRS MST
 ASCENSION NO. 12
 TABLE VI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/NOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED M/NOTS	
49000.0	124.1	-58.0		200.0	571.4	255.3	68.5	1.000045
49500.0	121.1	-58.7		196.8	570.5	256.8	67.6	1.000044
50000.0	118.2	-59.5		192.7	569.5	258.3	66.7	1.000043
50500.0	115.4	-60.2		188.7	568.5	259.2	65.1	1.000042
51000.0	112.6	-60.9		184.0	567.5	259.8	63.1	1.000041
51500.0	109.9	-61.7		181.1	566.5	260.4	61.1	1.000040
52000.0	107.3	-62.4		177.3	565.6	259.5	58.7	1.000039
52500.0	104.7	-62.3		172.9	565.7	258.6	56.4	1.000039
53000.0	102.1	-61.9		168.4	566.3	257.3	54.4	1.000038
53500.0	99.7	-61.6		164.1	566.6	255.6	52.7	1.000037
54000.0	97.2	-62.3		160.7	565.7	253.8	51.2	1.000036
54500.0	94.9	-63.0		157.3	564.7	254.0	50.2	1.000035
55000.0	92.6	-63.7		154.0	563.8	254.2	49.3	1.000034
55500.0	90.3	-64.4		150.8	562.8	255.4	48.4	1.000034
56000.0	88.1	-64.8		147.7	562.3	257.6	47.5	1.000033
56500.0	85.9	-65.1		143.9	561.9	259.9	46.7	1.000032
57000.0	83.8	-65.4		140.6	561.5	262.2	43.9	1.000031
57500.0	81.8	-65.7		137.3	561.1	264.8	41.2	1.000031
58000.0	79.7	-66.0		134.1	560.7	266.5	38.9	1.000030
58500.0	77.8	-66.3		131.0	560.3	267.2	37.2	1.000029
59000.0	75.9	-66.6		127.9	559.9	268.0	35.4	1.000028
59500.0	74.0	-66.9		125.0	559.5	265.7	34.5	1.000028
60000.0	72.2	-66.9		121.8	559.6	263.4	33.7	1.000027
60500.0	70.4	-66.8		118.8	559.6	260.6	31.9	1.000026
61000.0	68.7	-66.3		115.6	560.4	257.2	29.1	1.000026
61500.0	67.0	-65.6		112.4	561.3	253.1	26.3	1.000025
62000.0	65.3	-64.9		109.3	562.2	252.5	23.3	1.000024
62500.0	63.8	-64.2		106.7	563.2	252.1	20.3	1.000024
63000.0	62.2	-63.5		103.4	564.1	251.8	17.8	1.000023
63500.0	60.7	-62.8		100.5	565.0	251.8	16.1	1.000022

UPPER AIR DATA
 0110030012
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 TABLE VI (CONT)

STATION ALTITUDE 4051.00 FEET MSL
 11 JAN. 77 1000 HRS MST
 ASCENSION NO. 12

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
64000.0	59.2	-62.1			97.7	566.0	251.8	14.5	1.000022
64500.0	57.8	-61.4			95.0	566.9	248.0	15.9	1.000021
65000.0	56.4	-60.7			92.4	567.8	244.5	17.8	1.000021
65500.0	55.0	-60.0			89.9	568.8	243.9	20.5	1.000020
66000.0	53.7	-59.8			87.7	569.0	247.3	24.4	1.000019
66500.0	52.4	-60.1			85.7	568.6	249.8	28.4	1.000019
67000.0	51.1	-60.4			83.7	568.3	253.7	30.9	1.000018
67500.0	49.9	-60.5			81.7	568.2	257.5	33.2	1.000018
68000.0	48.7	-58.8			79.2	570.4			1.000017
68500.0	47.6	-57.1			76.7	572.7			1.000017
69000.0	46.4	-55.4			74.3	574.9			1.000017

STATION ALTITUDE 4051.00 FEET MSL
 11 JAN. 77 1000 HRS MST
 ASCENSION NO. 12

MANDATORY LEVELS
 C110030012
 JALLEN

WSIM SITE COORDINATES
 450491.63 FEET E
 464023.05 FEET N

TABLE VII

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4962.	2.6	-12.8	31.	155.8	2.0
800.0	6569.	3.3	-12.3	31.	22.9	7.6
750.0	8281.	1.9	-14.7	28.	33.0	5.5
700.0	10098.	-1.0	-21.7	19.	342.1	5.8
650.0	12021.	-5.4	-24.2	21.	288.7	6.4
600.0	14066.	-9.6	-25.8	25.	265.8	18.0
550.0	16255.	-13.3	-27.5	29.	248.4	35.4
500.0	18618.	-17.6	-35.1	20.	243.3	44.4
450.0	21173.	-24.2	-28.9	65.	242.6	45.6
400.0	23951.	-31.2	-31.3	99.	247.9	50.6
350.0	27011.	-38.3	-44.1	54.	242.3	63.2
300.0	30434.	-45.5			236.4	86.2
250.0	34359.	-52.8			232.8	99.5
200.0	39017.	-58.6			242.1	91.0
175.0	41756.	-59.8			246.4	82.7
150.0	44938.	-56.4			247.3	79.3
125.0	48732.	-57.8			254.9	68.5
100.0	53288.	-61.5			255.9	53.0
80.0	57768.	-66.0			266.4	39.2
70.0	60419.	-66.8			260.0	31.4
60.0	63508.	-62.5			251.8	15.5
50.0	67231.	-60.6			257.1	33.0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.